WHAT IS CLAIMED IS:

1		1.	In a	a process	for	preparing	door	skins	and	other	door
2	components by the molding of sheet molding compound containing an unsaturated,										
3	curable molding resin in a heated mold under pressure, the improvement comprising:										
4		selecti	ng, a	s a cure c	atalys	t compositi	on,				
5		a)	an e	ffective ar	nount	of a catalys	t comp	onent o	contai	ning a	major
6	amount, base	d on the	amo	ount of cat	alyst,	of t-amylp	eroxyb	enzoat	e, an	d	
		b)	an e	effective ar	noun	of a polym	erizati	on inhi	bitor	compos	sition.
1		2.	The	process of	of cla	im 1, wher	ein sa	id cata	lyst c	ompor	nent is
2	present in an	amount	of 0	.5 to 5 par	rts pe	r 100 parts	of said	l moldi	ing re	sin, an	d said
3	inhibitor com	positio	n is p	resent in	an an	nount of 0.0	01 part	t to abo	out 1	part pe	er 100
4	parts moldin	g resin	calc	ulated on	the b	asis of a 5 v	weight	percer	nt con	centrat	ion of
5	inhibitor in sa	aid poly	meri	zation inh	ibitor	composition	on.				
1		3.	The	e process	of	claim 2	wherei	n said	l inb	ibitor	is p-
2	benzoquinon	e.									
1		4.	The	e process	of cla	aim 1, whe	rein sa	id cata	alyst (compo	nent is
2	present in an	amount	of 0	.8 to 2.0 p	arts p	er 100 part	s of sa	id molo	ling r	esin, aı	nd said
3	inhibitor is p	present	in aı	amount	of 0.	05 part to	about	0.4 p	arts _I	per 100) parts
4	molding resi	n.									
1		5.	Th	e process	of cla	nim 1 where	ein the	cure t	ime i	s less t	han 60
2	seconds.										
1		6.	Th	e process	of cl	aim 1 wher	ein the	cure t	ime i	s less t	:han 50
2	seconds.										
1		7.	Th	e process	of c	laim 1 whe	rein a	vacuu	m is	applie	d upor
2.	closure of th	e tool i	n wh	ich said sl	ieet n	nolding con	npound	l is mo	lded.		

1	8.	The process of claim 7 wherein said vacuum is between 15 and
2	29 inches mercury a	and is released from 5 to 30 seconds after its application.
_	0	A 1 1 '
1	9.	A door having a compression molded SMC door skin and
2	= =	ld-on panels, the improvement comprising securing said applied
3	inserts or panels to	a surface of said door skin using adhesive tape as the sole
4	securing means.	
1	10.	The process of claim 9 wherein said add-on panels are applied
2	to said doorskin wit	thout first making a hole through said doorskin.
1	11.	A process for reducing surface defects on a stainable
2		ed SMC doorskin without creating a non-uniformly stainable
3	surface, said proces	
4	a)	selecting as an SMC, an SMC which exhibit a
5	<i>a)</i>	cure time of one minute or less;
3		cure time of one finance of less,
6	b)	upon closure of a door skin mold containing said SMC,
7		applying a vacuum of from about 10 inches Hg to 29
8		inches Hg; and
9	c)	maintaining said vacuum for a period of from about 5
10	•,	seconds to about 30 seconds.
10		
1	12.	The process of claim 11 wherein said cure time is 50 seconds
2	or less.	
1	13.	The process of claim 11, wherein said vacuum is from about
2		g, and the pressure of the mold is from about 200 psig to about
3	1500 psig.	
	, 0	
1	14.	The process of claim 11, wherein the vacuum is applied for
2	from 10 to 23 seco	onds.

1	15. A compression molded SMC doorskin or molded part,
2	comprised of the cured reaction product of an SMC containing a cure catalyst
3	composition containing a catalyst system effective to cure said doorskin in less than
4	one minute at 150°C.

- 16. The doorskin or molded part of claim 15 wherein said SMC contains an inhibitor in an amount of 0.01 part to about 2.0 part per 100 parts of a curable unsaturated resin component in said SMC, and a catalyst component comprising in major part t-amylperoxybenzoate.
- 17. In a fiberglass-reinforced door skin produced by compression molding sheet molding compound containing from about 5 parts to about 300 parts fiberglass per 100 parts of curable resin, the improvement comprising replacing up to about 25 weight percent of fiberglass with wollastonite.